

We claim:

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a' } 1. In combination with a duplicating machine, a device for generating an air stream in the duplicating machine, comprising:

at least one fan unit for generating the air stream; and

said at least one fan unit having at least one ionic fan.

2. The device according to claim 1, wherein said at least one ionic fan is configured to be controlled such that a desired flow is generated. A

3. The device according to claim 1, wherein said at least one fan unit includes a plurality of ionic fans disposed substantially adjacent to one another along a given space curve.

4. The device according to claim 3, wherein said plurality of ionic fans is configured to be controlled individually in order to generate a desired flow field.

5. The device according to claim 1, wherein said at least one fan unit includes a plurality of ionic fans disposed substantially adjacent to one another along a straight line.

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6. The device according to claim 1, wherein said at least one fan unit includes a plurality of ionic fans disposed essentially adjacent to one another and spread over a given area.

7. The device according to claim 6, wherein said plurality of ionic fans is configured to be controlled individually in order to generate a desired flow field.

8. The device according to claim 1, wherein said at least one fan unit includes a plurality of ionic fans disposed essentially adjacent to one another and spread over a given planar area.

9. The device according to claim 1, wherein said at least one fan unit is configured to be disposed adjacent to a transport path for flat products.

10. The device according to claim 1, wherein said at least one fan unit is configured to be disposed adjacent to a transport path for print carriers.

11. The device according to claim 1, wherein said at least one fan unit is configured to be disposed adjacent to a transport path for flat products selected from the group consisting of paper sheets and cardboard sheets.

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12. The device according to claim 1, wherein said at least one fan unit is configured to be disposed adjacent to a transport path for a flat product and said at least one fan unit is configured to act upon at least a part of a region surrounding the flat product with a pressure for guiding the flat product, the pressure is selected from the group consisting of an overpressure as compared to an ambient pressure and an underpressure as compared to the ambient pressure.

13. The device according to claim 1, including:

a powder container for holding powder;

said at least one ionic fan generating an air stream; and

at least one feed unit connected to said powder container and transporting the powder from said powder container into the air stream of said at least one ionic fan.

14. The device according to claim 13, wherein said powder container, said at least one feed unit and said at least one ionic fan are configured to apply the powder to flat products.

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15. The device according to claim 13, wherein said powder container, said at least one feed unit and said at least one ionic fan are configured to apply the powder to print carriers selected from the group consisting of paper sheets and cardboard sheets.

16. The device according to claim 14, wherein said at least one ionic fan includes a plurality of individually controllable ionic fans configured to be controlled for a zonal powdering of the flat products.

17. The device according to claim 16, wherein the flat products define a transport direction and said plurality of individually controllable ionic fans are configured to be controlled in a direction transverse to the transport direction.

18. The device according to claim 14, wherein said at least one feed unit is a plurality of individually controllable feed units configured to be controlled for a zonal powdering of the flat products.

19. The device according to claim 18, wherein the flat products define a transport direction and said plurality of individually controllable feed units are configured to be

controlled in a direction transverse to the transport direction.

20. The device according to claim 14, including at least one further fan unit configured to suck away excess powder from a region surrounding the flat products.

21. The device according to claim 1, wherein the duplicating machine is a printing machine.

22. A duplicating machine configuration, comprising:

a duplicating machine including an air stream generator for generating an air stream; and

said air stream generator for generating the air stream including at least one fan unit having at least one ionic fan.

23. A printing machine configuration, comprising:

a rotary offset printing machine including an air stream generator for generating an air stream; and

said air stream generator for generating the air stream including at least one fan unit having at least one ionic fan.

generating a flow field of air streams with a plurality of controllable ionic fans of a fan unit; and

guiding flat products, at least in given sections of a duplicating machine, with the flow field of air streams.

28. The method according to claim 27, which comprises guiding print carriers as the flat products.

29. The method according to claim 27, which comprises providing individually controllable ionic fans as the controllable ionic fans.

30. A method of depositing flat products in a duplicating machine, the method which comprises:

generating a flow field of air streams with a plurality of controllable ionic fans of a fan unit; and

at least supporting a depositing of flat products with the flow field of air streams in a duplicating machine.

31. The method according to claim 30, which comprises providing print carriers as the flat products.

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32. The method according to claim 30, which comprises providing individually controllable ionic fans as the controllable ionic fans.

33. A method of powdering print carriers in a duplicating machine, the method which comprises:

generating a flow field of air streams with a plurality of controllable ionic fans of a fan unit; and

feeding powder to print carriers in a duplicating machine by using the flow field of air streams for performing a zonal powdering of the print carriers.

34. The method according to claim 33, which comprises providing individually controllable ionic fans as the controllable ionic fans.

35. A method of transporting print carriers in a duplicating machine, the method which comprises:

generating blast air with at least one ionic fan; and

using the blast air for one of transporting and assisting a transport of print carriers at least in one section of a duplicating machine.

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